BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

						Modified Cost Rs.		20.24Lakhs	
Name of Work:-Modified estimate for the Construction of concrete road 22nd cross in 3rd phase beside TATA institue in ward no :04									
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing B.S slab of drain and stacking	sqm							
	22nd cross		2	103.00	1.65		339.90		
	Tata institute opposite road R/Side		1	28.00	1.65		46.20		
			1	27.00	1.65		44.55		
	L/Side		1	59.00	1.65		97.35		
							528.00		
		Deduct 30%of Missing slabs qty					158.40		
							369.60	60.94	22523.00
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
	Tender premium(+4.49%)	2.62							
		60.94							
2	Refixing stone slabs of drains and pointing in CM(1:3)	Sqm							
			Vide Item No. 1				369.60	78.99	29196.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
	Tender premium(+4.49%)	3.39							
		78.99							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete **do 7.5 cms** thick	sqm							
		30% of Missing slabs qty					158.40	668.07	105822.00
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	**639.36**							
	Tender premium(+4.49%)	28.71							
		668.07							

4	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no 138, PWD SR 2014-15)	**Cum**							
	Removing silt in 22nd cross		2	103.00	0.50	0.40	41.20		
	Tata institute opposite road R/Side		1	28.00	0.50	0.35	4.90		
			1	27.00	0.50	0.45	6.08		
	L/Side		1	59.00	0.50	0.35	10.33		
							62.50	**83.00** ✓	**5188.00** ✓
5	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2014-15	Cum							
	For culverts		3	5.00	1.30	0.90	17.55		
	22nd cross		2	103.00	0.90	0.80	148.32		
	Tata institute opposite road R/Side		1	28.00	0.90	0.80	20.16		
			1	27.00	0.90	0.80	19.44		
	L/Side		1	59.00	0.90	0.80	42.48		
	For road portion		1	104.00	4.20	0.30	131.04		
	For widen portion		2	60.00	1.20	0.20	28.80		
							407.79		
	(-)Removing silt in 22nd cross		2	103.00	0.50	0.40	41.20		
	Tata institute opposite road R/Side		1	28.00	0.50	0.35	4.90		
			1	27.00	0.50	0.45	6.08		
	L/Side		1	59.00	0.50	0.35	10.33		
	Culverts for drain portion		2	5.00	1.00	0.80	8.00		
							70.50		
						Total quantity	**337.29**		
						A)Up to125% of quantity	**216.75**	**285.00** ✓	**61774.00** ✓
						B)Above 125% of quantity	**120.54**	**276.48**	**33327.00** ✓
	Basic Rate	245.00							
	Area Weightage @ 8%	19.60							
	Total	**264.60**							
	Tender premium(+4.49%)	11.88							
		276.48							

6	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no4.3,Page no12,PWD SR 2014-15)	Cum							
	For culverts		3	5.00	1.30	0.15	2.93		
	For road portion		1	104.00	4.20	0.15	65.52		
							68.45	**5300.00**	**362759.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							
7	KSRRB 4.1:6Providing and laying in position plain **cement concrete mix 1:2:4** with cement @240kgs,with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted,in foundation,plinth and cills,including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification no 4.1,4.2 **(Page.12 & Item No. 4.6)**								
	CC Road surface		1	104.00	4.20	0.10	43.68		
	Base concrete:-22nd cross		1	103.00	0.25	0.10	2.58		
			1	93.00	0.25	0.10	2.33		
	Tata institute opposite road R/Side		1	28.00	0.25	0.10	0.70		
			1	27.00	0.25	0.10	0.68		
	L/Side		1	59.00	0.25	0.10	1.48		
			1	103.00	0.20	0.10	2.06		
			1	93.00	0.20	0.10	1.86		
			1	28.00	0.20	0.10	0.56		
			1	27.00	0.20	0.10	0.54		
			1	59.00	0.20	0.10	1.18		

	Coping concrete:-22nd cross		2	103.00	0.20	0.10	4.12		
			2	93.00	0.20	0.10	3.72		
	Tata institute opposite road R/Side		2	28.00	0.20	0.10	1.12		
			2	27.00	0.20	0.10	1.08		
	L/Side		2	59.00	0.20	0.10	2.36		
	Vent portion concrete:-22nd cross		1	103.00	0.40	0.075	3.09		
			1	93.00	0.40	0.075	2.79		
	Tata institute opposite road R/Side		1	28.00	0.40	0.075	0.84		
			1	27.00	0.40	0.075	0.81		
	L/Side		1	59.00	0.40	0.075	1.77		
	Approaches concrete		3	5.00	0.75	0.075	0.84		
					Total quantity		**80.17**		
					A)Up to125% of quantity		**52.50**	**5860.00**	**307650.00**
					B)Above 125% of quantity		**27.67**	**5566.85**	**154056.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							
	Tender premium(+4.49%)	239.21							
		5566.85							
8	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P25/5.27)								
	Foundation for flagging course								
	22nd cross		2	103.00		0.20	41.20		
			2	93.00		0.20	37.20		
	Tata institute opposite road R/Side		2	59.00		0.20	23.60		
			2	28.00		0.20	11.20		
	L/Side		2	27.00		0.20	10.80		
							124.00	**1038.21**	**128738.00**
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	**993.60**							
	Tender premium(+4.49%)	44.61							
		1038.21							

9	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasterise @ 3lts conforming etc as per specification&direction of the engineer incharge of work(pwd sr2014-15,p.no13,sno4.11)	Cum							
	For culvert bottom concrete		3	5.00	1.20	0.25	4.50		
	Sides		6	5.00	0.20	0.70	4.20		
	For deck slab		3	5.00	1.00	0.23	3.45		
							12.15	**6600.00**	**80190.00**
10	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr2014-15,p.no17,s.no4.46)	Qtl							
	100 kg / cum						**12.15**	**8600.00**	**104490.00**
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecification. Specification no.KBS 4.6.2(pwd sr2014-15,p.no15/4.31)	Sqm							
	For culverts side wall		6	5.00		0.70	21.00		
	For culverts deck slab		3	5.00	0.60		9.00		
	Sides		6	5.00		0.23	6.90		
			6	1.00		0.23	1.38		
							38.28	**320.00**	**12250.00**

12	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator,HOM of machinery screed vibratory,power floater,blade and disk etc,,with all lead and lift etc as per specifications .(P.NO171/22.7)	Sqm							
	Road concrete		1	104.00	4.20		436.80		
							436.80	**101.56**	**44363.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
	Tender premium(+4.49%)	4.36							
		101.56							
13	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine,generator&HOM of machinery,including cost of blade,coolant etc as per specifications as per specifications.(p.no172/22.80)	**Rmtr**							
	Road concrete		5	4.20			21.00		
							21.00	**129.78**	**2725.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
	Tender premium(+4.49%)	5.58							
		129.78							
14	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).	Sqm							
	22nd cross		1	103.00	0.90		92.70		
			1	93.00	0.90		83.70		
	Tata institute opposite road R/Side		1	28.00	0.90		25.20		
			1	27.00	0.90		24.30		
	L/Side		1	59.00	0.90		53.10		
							279.00		
		10% of Available slabs qty					27.90		
				Total quantity			**251.10**		
		A)Up to125% of quantity					**31.73**	**1365.00**	**43305.00**
		B)Above 125% of quantity					**219.38**	**1300.90**	**285385.00**
	Basic Rate	1245.00							
	Tender premium(+4.49%)	55.90							
		1300.90							

15	KSRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501	**Sqm**							
			1	60.00	4.00		240.00		
							240.00	**3.02**	**726.00**
	Basic Rate	2.80							
	Area Weightage @ 8%	0.22							
	Total	**3.02**							
	Tender premium(+4.49%)	0.14							
		3.16							
16	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification: 406 (PWD SR 2014-15 P.N.154 It 20.18)	**Cum**							
	For filling potholes		19	0.90	0.90	0.15	2.31		
			7	2.50	2.00	0.20	7.00		
			3	2.00	1.50	0.25	2.25		
			2	60.00	1.00	0.20	24.00		
							35.56	**1450.00**	**51560.00**
17	KSRRB M500-6,Providing and applying **primer coat** with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH Specifications No502 (ITEM NO 21.6, Page no157, PWD SR 2014-15)	Sqm							
			1	60.00	6.00		360.00		
							360.00	**35.21**	**12676.00**

18	KSRRB M500-19: providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled	Cum							
			1	60.00	6.00	0.040	14.40		
							14.40	**10195.00**	**146808.00**
19	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/sand/kanker/Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2014-15)	Cum							
			Vide Item No. 1				**399.79**		
			A)Up to125% of quantity				**299.25**	**70.00**	**20948.00**
			B)Above 125% of quantity				**100.54**	**71.09**	**7148.00**
	Basic Rate	63.00							
	Area Weightage @ 8%	5.04							
	Total	**68.04**							
	Tender premium(+4.49%)	3.05							
		71.09							
20	Miscellaneous charges	**L/S**							393.00
								Total RS	**2024000.00**
(Rupees Twenty lakhs Twenty fore thousands only)									

Certificate

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

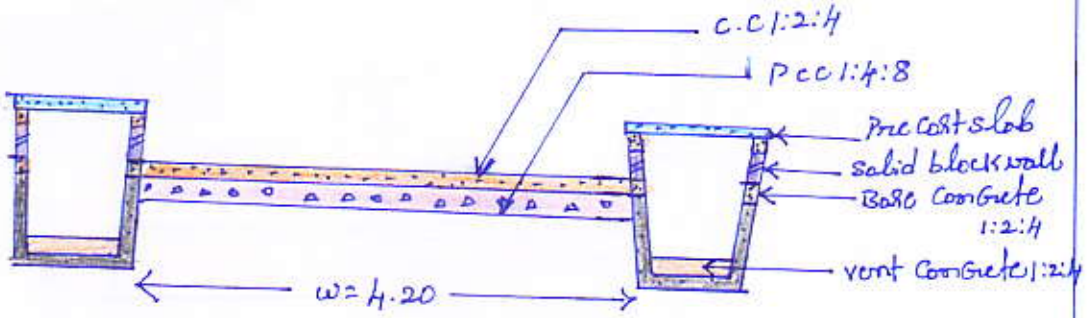
Assistant Executive Engineer
Yelahanka New town Sub Division

Executive Engineer
Yelahanka Division
Bangalore-64

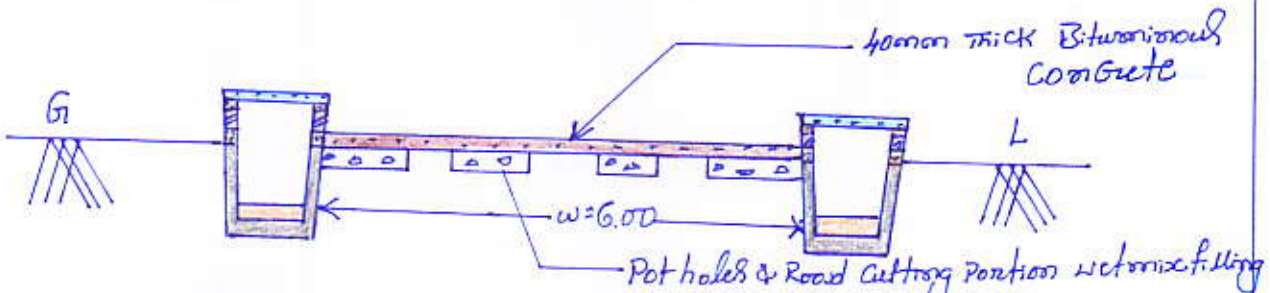
Modified Estimate Approved

Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Bangalore 92

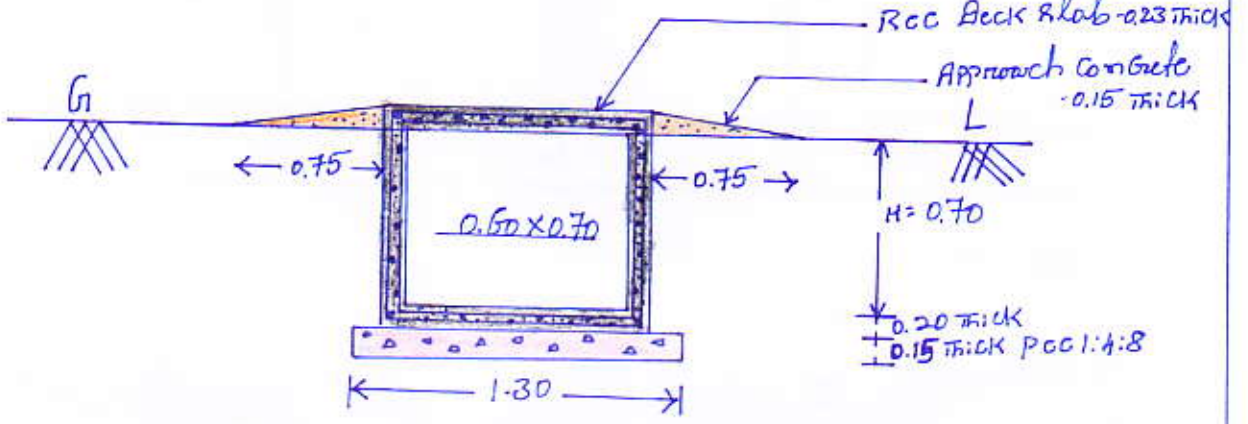
Name of work:- modified estimate for the Construction of Concrete road @ 2nd Cross in 3rd phase beside TATA Institute in ward No-04.



CROSS SECTION OF CC Road with Flagging Course



CROSS SECTION OF BC Road



CROSS SECTION OF RCC CULVERT

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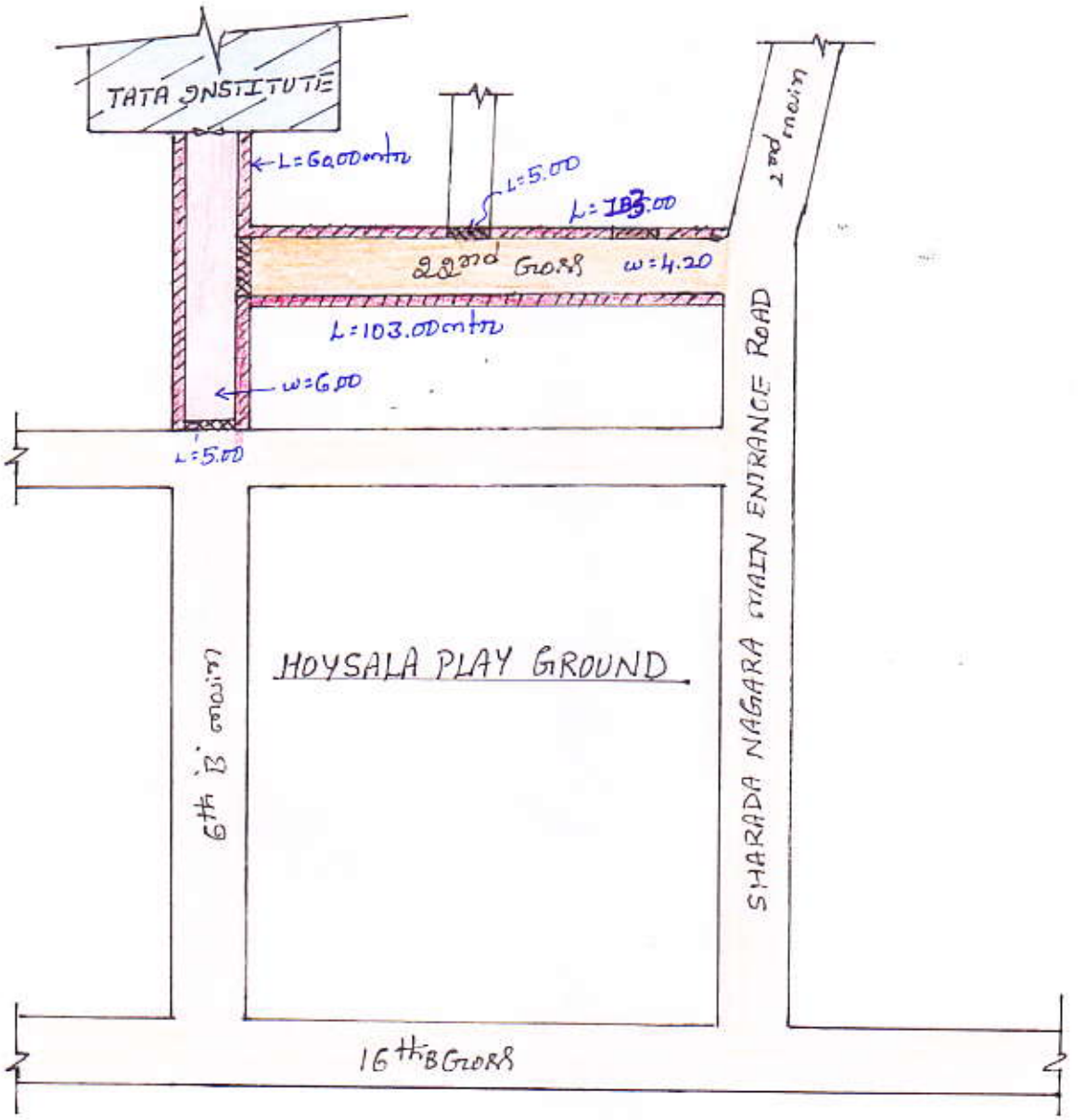
Name of work:- Modified estimate for the Construction of Concrete road 22nd Cross in 3rd phase beside TATA Institute in ward no-04



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